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Figure 1

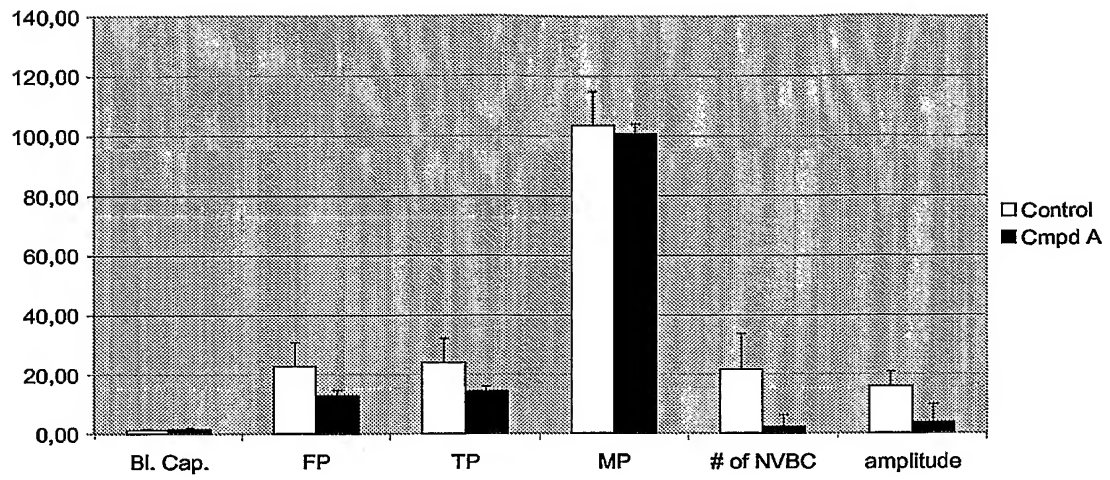
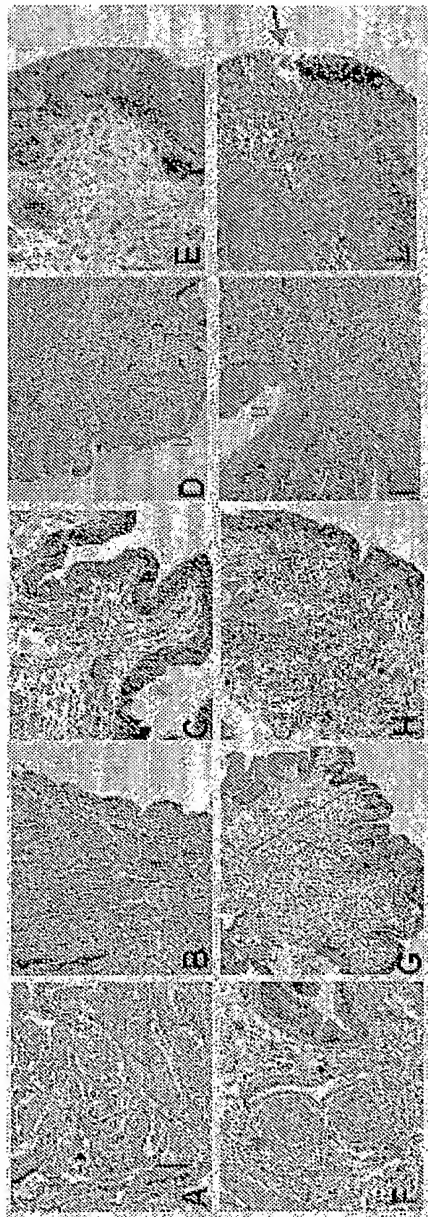


Figure 2



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Figure 3

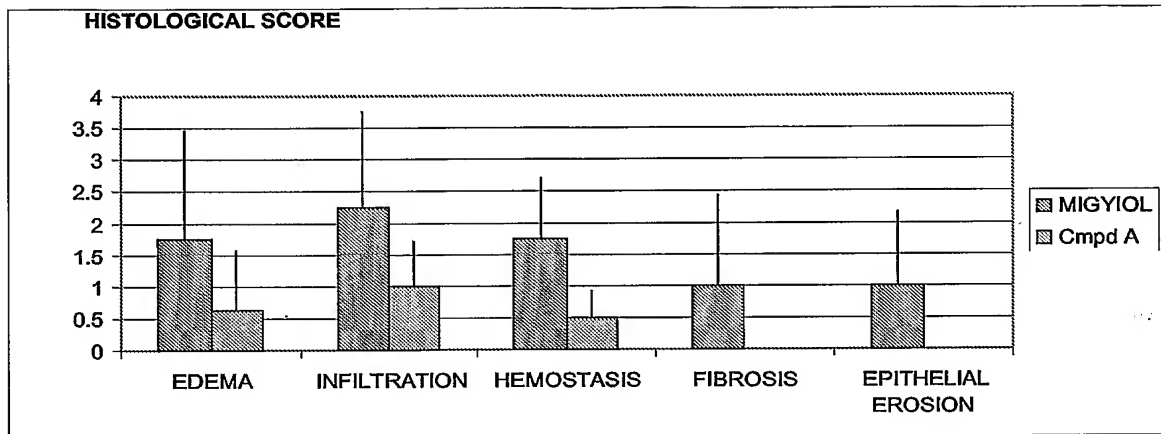


Figure 4

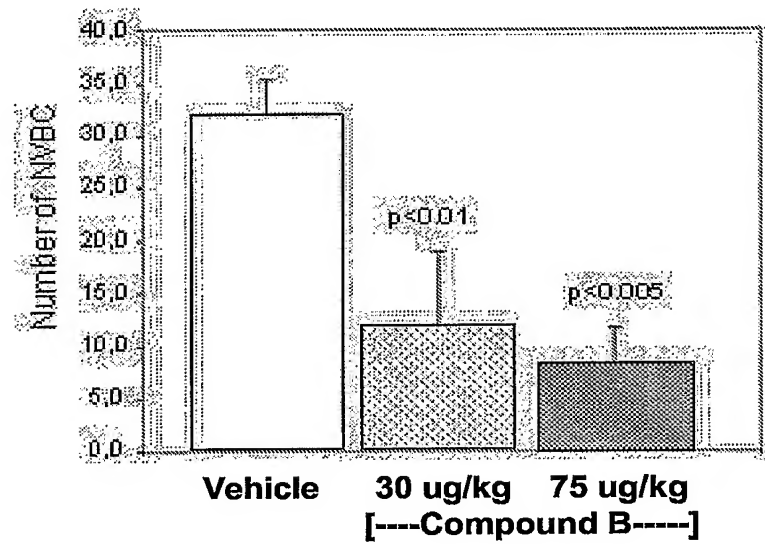


Figure 5

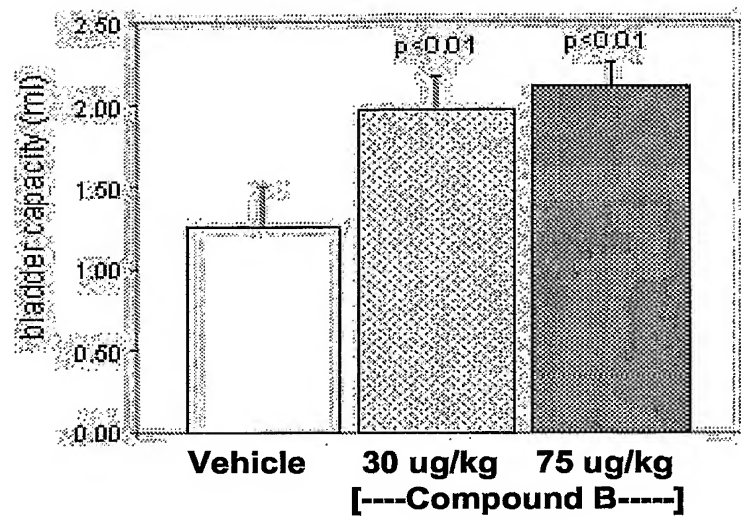
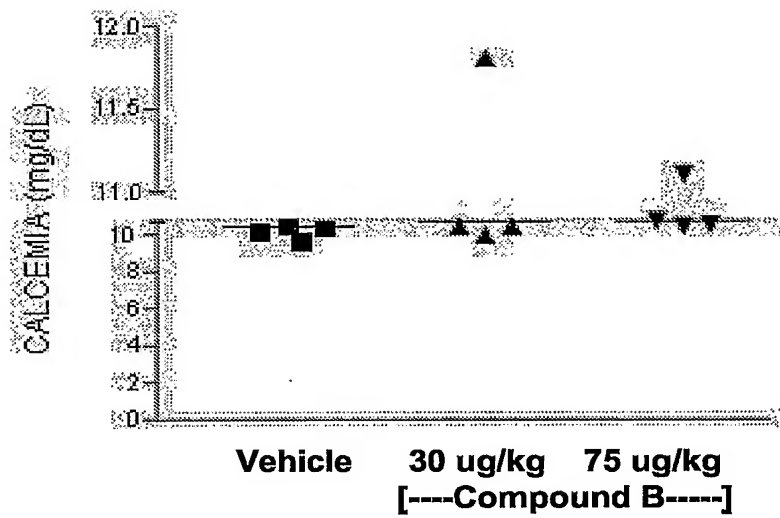


Figure 6



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Figure 7

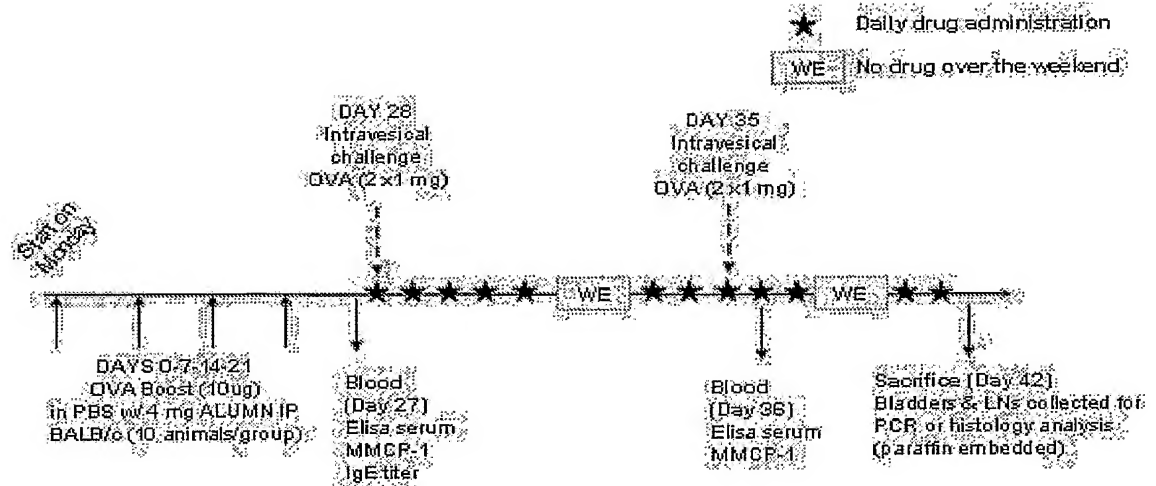
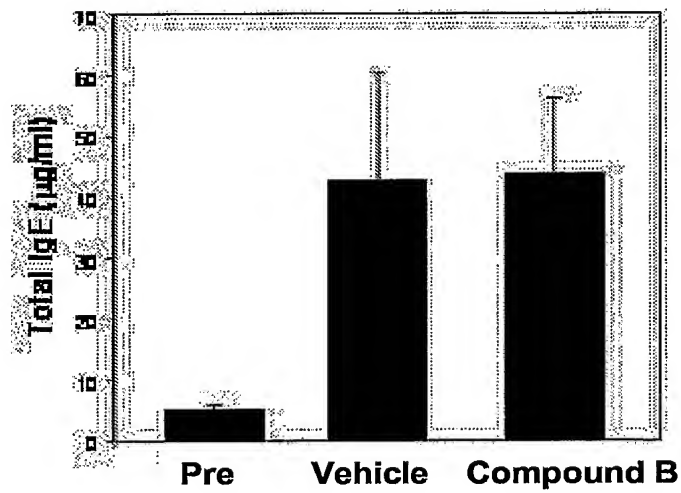


Figure 8



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Figure 9

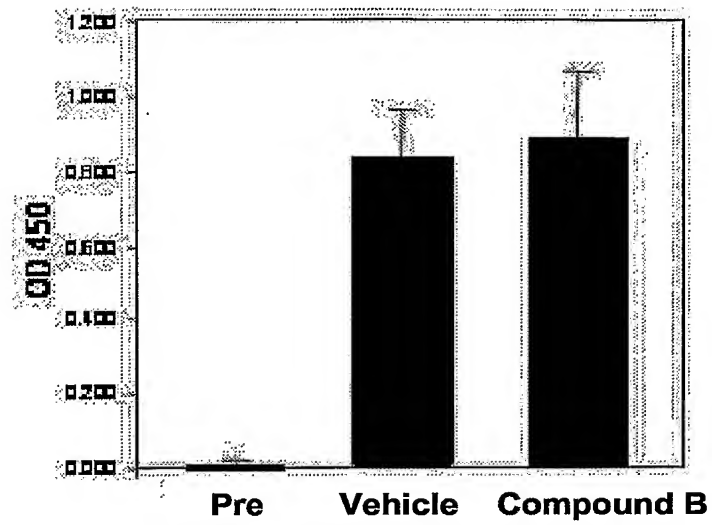
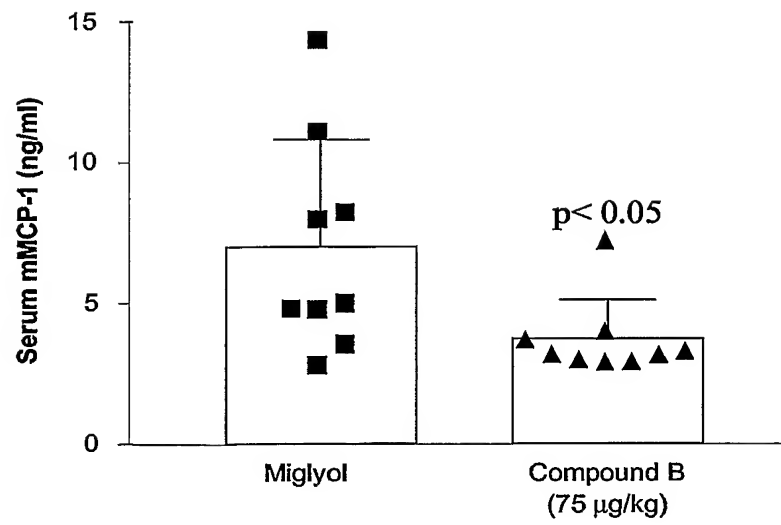


Figure 10



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Figure 11

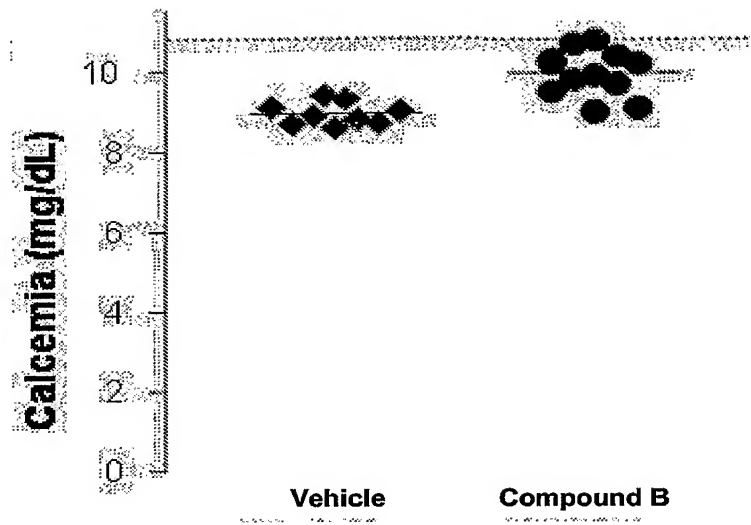
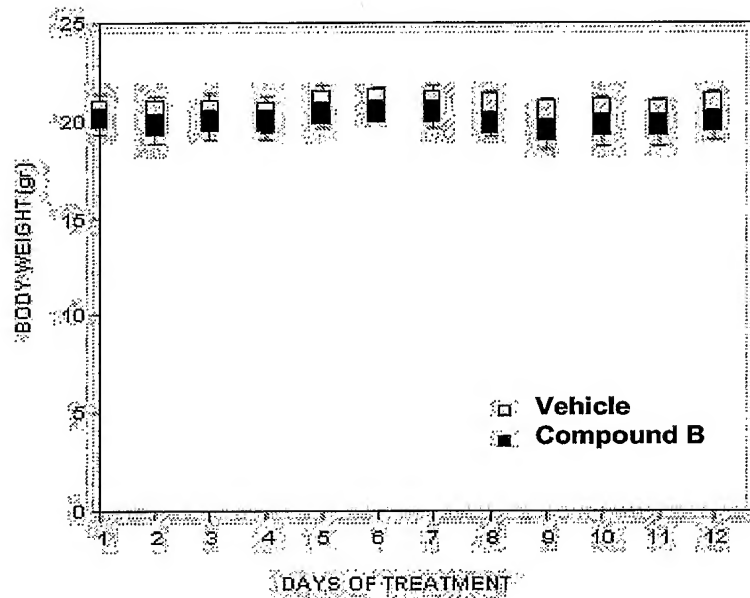


Figure 12



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Figure 13

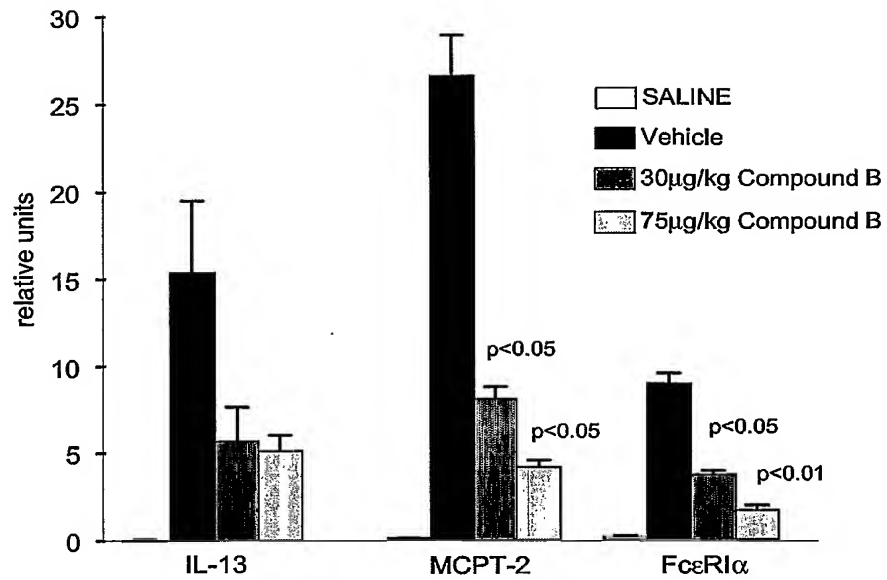
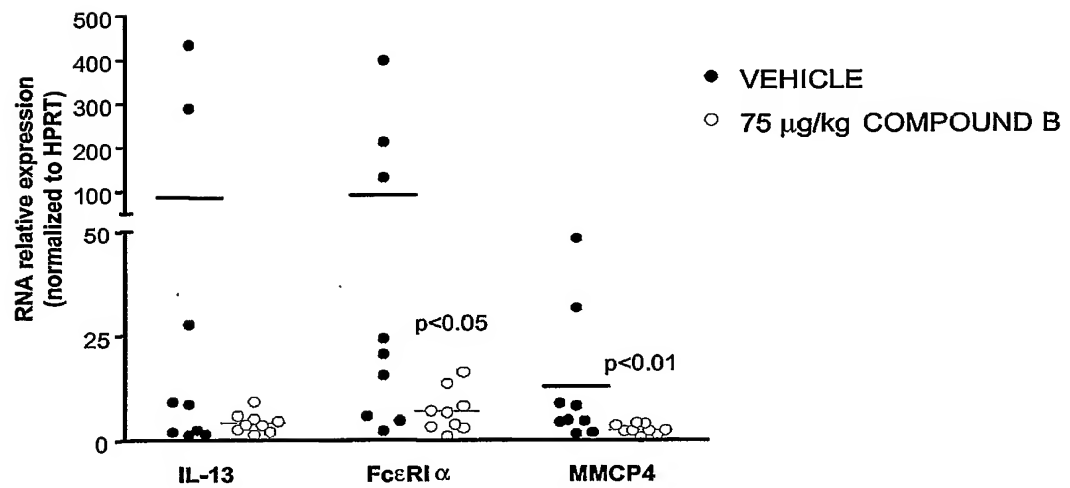


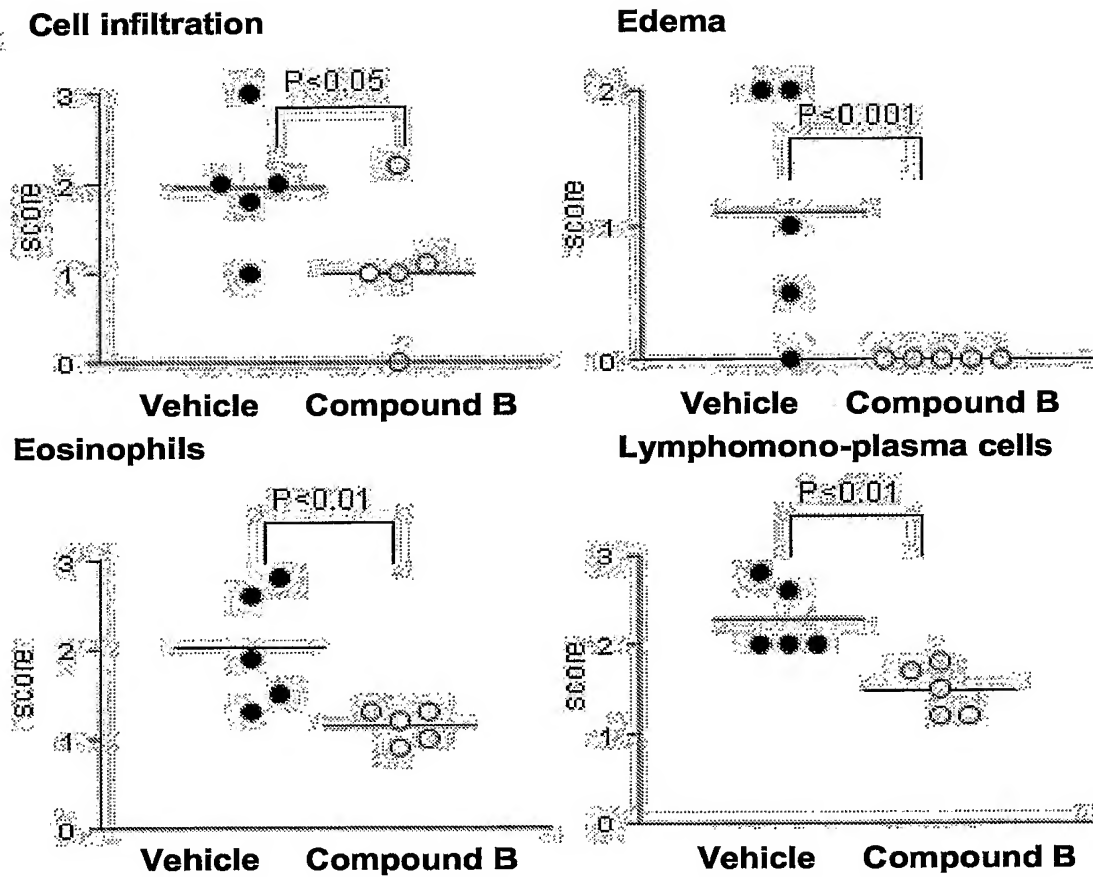
Figure 14





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Figure 15



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Figure 16



**Vehicle**



**Compound B**

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Figure 17

## SUMMARY TABLE

Effects of VitD3 analogues on various inflammatory parameters in experimental allergic cystitis

	mRNA gene expression in the bladder tissue (TaqMan® analysis) <sup>a</sup>			Serum mMCP1 <sup>b</sup>		Histological analysis <sup>c</sup>				Calcein <sup>d</sup>
	FcεR1α	IL-13	mMCP4			MC	EOS	LMPC	EDEMA	
OVA	2.5±2.6 (100±105) n=45	3.8±9.8 (100±238) n=43	3.1±3.4 (100±108) n=48	68±41 n=42		2±0.6 n=25	1.5±0.7 n=32	1.7±0.6 n=26	0.3±0.7 n=18	9.5±0.8 n=54
MIGLYOL										
OVA	4.9±9.3 (197±189) n=11	29±89 (751±310) n=10	8±19 (256±242) n=10	66.2±69 n=10		1.4±0.6* n=10	1.8±0.6 n=10	1.9±0.9 n=10	0.6±1.2 n=10	11.3±0.8 n=9**
BXL024										
OVA	5.8±5.3 (229±91) n=19	2.6±3.2 (114±92) n=19	3.1±2.7 (100±88) n=18	27.4±25.6 n=18**						10.1±0.4 n=19
Compound A										
OVA	0.8±0.4 (31±54)* n=11	0.1±0.09 (2.9±88)** n=10	0.7±0.5 (23±66)** n=10	26.9±17 n=10**		2.1±0.26 n=10	0.84±0.7* n=10	1.1±0.4* n=10	0 n=10	10.8±0.8 n=10**
Compound E										
OVA	0.6±0.3 (23±45)** n=9	0.15±0.16 (3.9±110)** n=9	0.5±0.22 (16±45)** n=9	37.6±17.2 n=10*		1.8±0.7 n=8	1.4±0.3 n=9	1.4±0.4 n=9	0.13±0.4 n=9	11.2±1 n=9**
Compound F										
OVA	8.2±11 (329±134)* n=18	13±31 (344±235) n=16	6.8±10 (217±152) n=18	59.7±110.2 n=17						9.7±0.7 n=18
Compound G										
OVA	1±1.1 (43±105)* n=10	1.2±1.7 (31±144)* n=10	1.3±0.99 (45±73)* n=10	58.3±24.3 n=10		1.5±0.5 n=7	1.3±0.7 n=7	1.4±0.7 n=7		11±0.6 n=10**
Compound H										
OVA	1.3±0.8 (51±67) n=8	1.3±0.8 (51±67)* n=8	1.4±0.97 (46±70)* n=8	51.2±41 n=15		1.6±1 n=5	0.9±1 n=5	1±1* n=5		11.4±1.4 n=11**
Compound I										
SALINE	0.1±0.03 (4±32)** n=4	0.03±0.03 (0.7±98)** n=4	0.15±0.05 (5±34)** n=4	12±2 n=4						
CHALLENGE										

a) Data are expressed as gene's relative expression (±SD) to the housekeeping gene (HPRT). For IL-13 and FcεR genes, standard curves were prepared, linear regression curves automatically calculated, and used to derive mRNA concentrations expressed in arbitrary units extrapolated from cycles threshold (Ct) values. mRNA concentrations of the samples were then divided by the concentration value of house-keeping gene. The relative quantification for mMCP4 gene was calculated by using the DCT method according to the following formula:  $x = 2^{-(C_{HPRT} - C_{MCP4})}$ . The percentage of induction (± coefficient of variation among animals) over control (MIGLYOL) is also indicated.

b) Data are expressed as ng/ml (± SD)

c) Data are expressed as histological score (± SD) given by a pathologist in blind fashion. MC= mast cells; EOS= eosinophils; LMPC= lymphomonocytes; plasma cells.

d) Data are expressed as mg total calcium/dL serum (± SD)

n= No of animals analyzed

\* p<0.05 \*\* p<0.001 versus MIGLYOL by Dunnett Multiple Comparison Test after one-way ANOVA on log-transformed data

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Figure 18

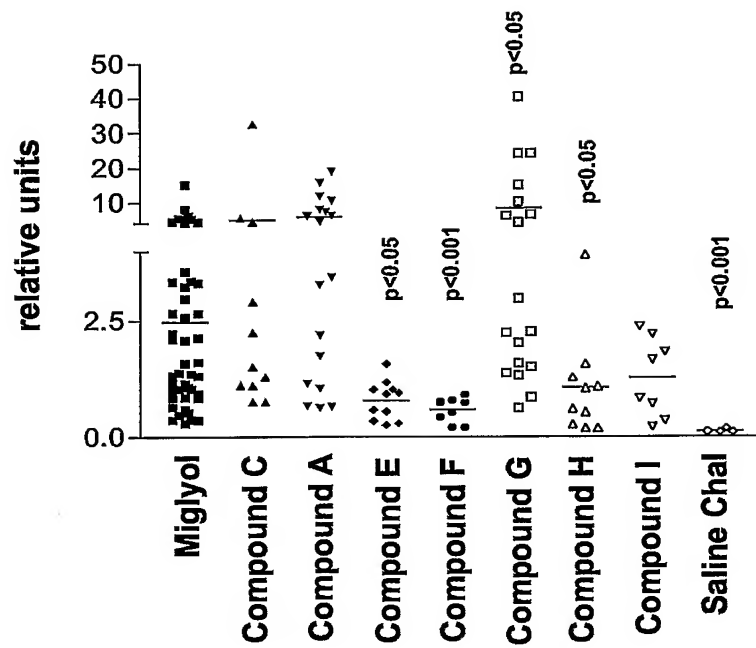
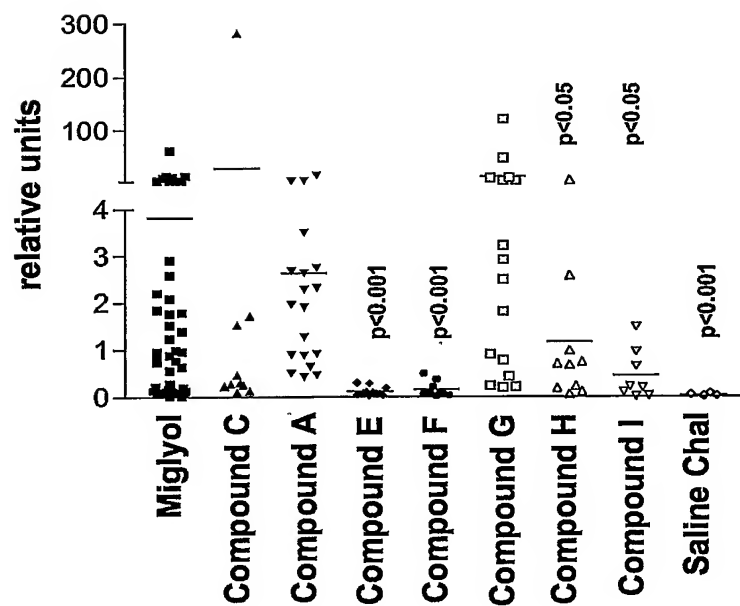


Figure 19



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Figure 20

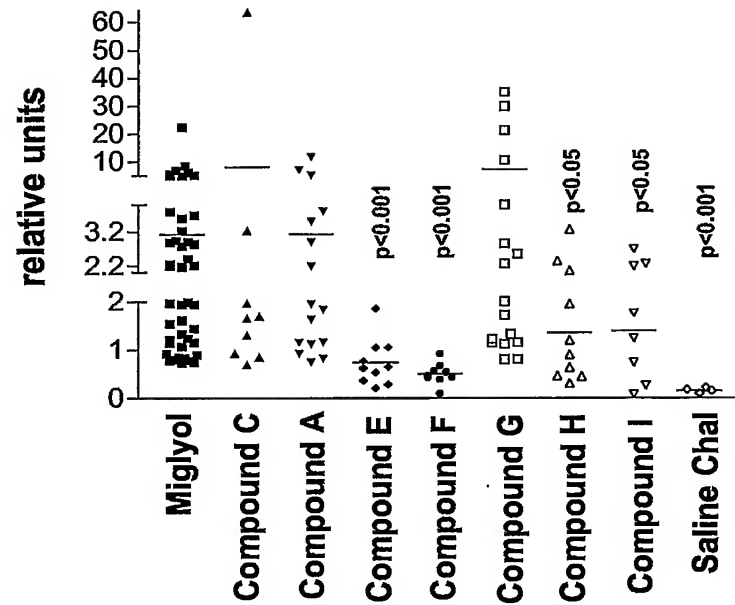
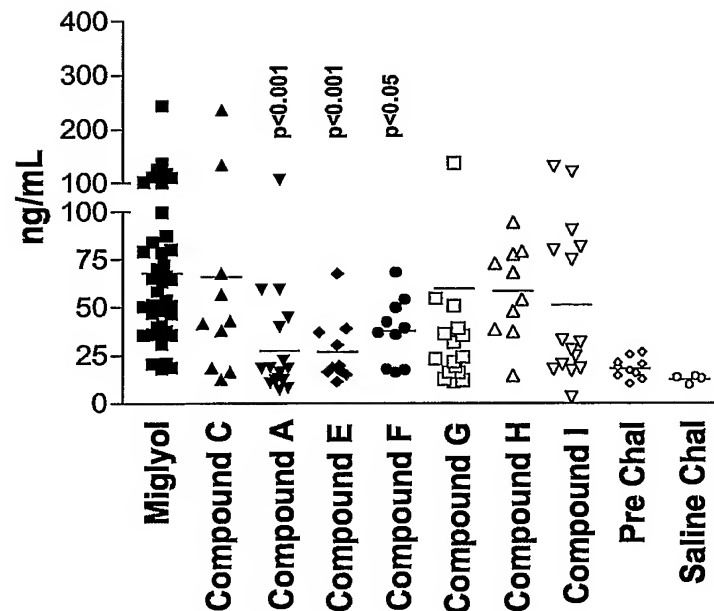


Figure 21



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Figure 22

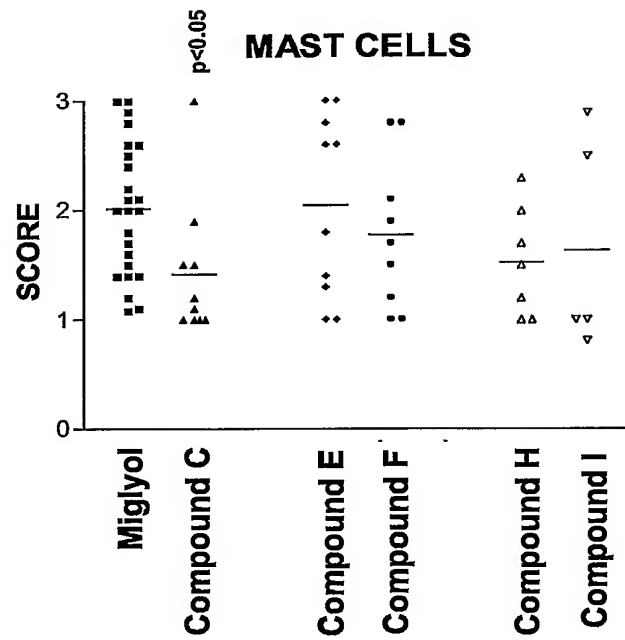
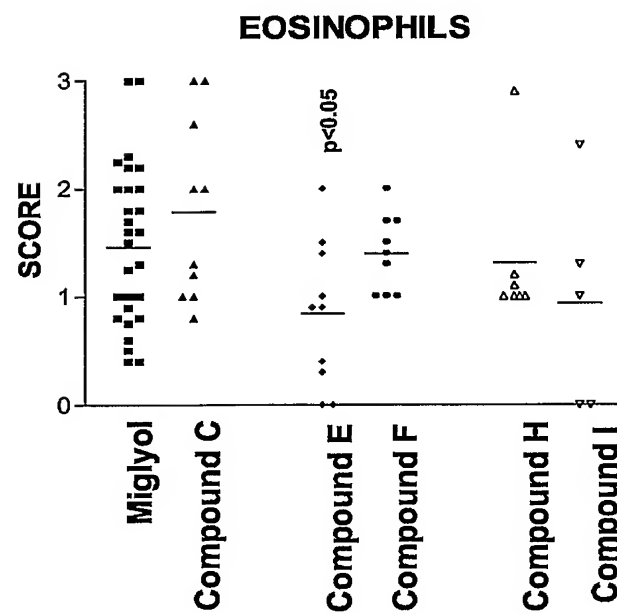


Figure 23



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Figure 24

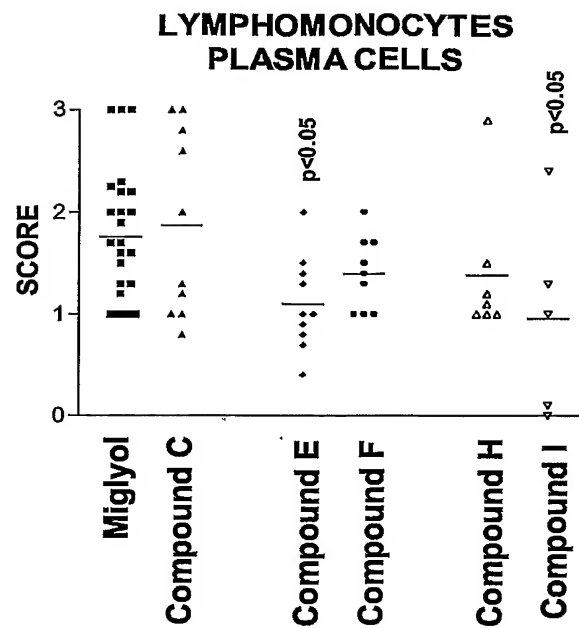
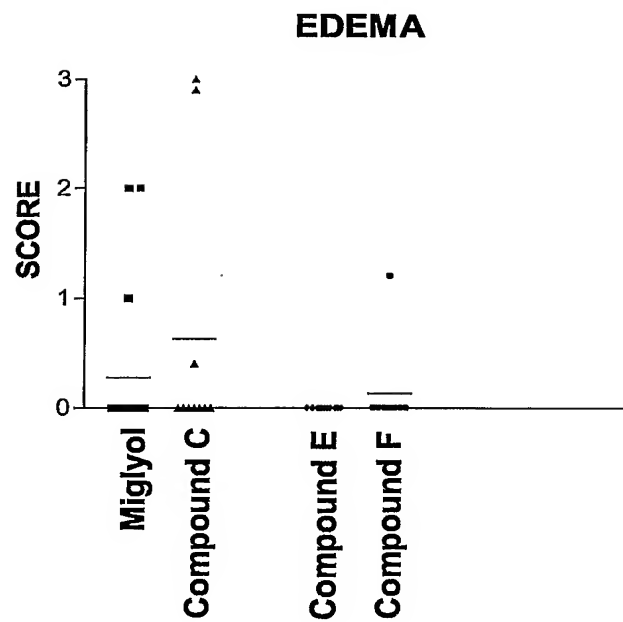


Figure 25



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Figure 26

